

## AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method within a communications network, comprising:  
registering, by a service provider, an Internet service with a broker;  
transmitting, by the service provider, metadata, to the broker, describing at least one communication proxy, including at least one supported protocol, a type, and a location of the communication proxy, the communication proxy provided by the service provider to enable client-access to the registered Internet service;  
matching the registered Internet service with a client request to locate a client-desired Internet service having a client-specified communication proxy type and a client-specified application-level protocol;  
downloading the communication proxy of the registered Internet service from the location to a node local to a client that issued the client request to the broker; and  
accessing, by the communication proxy, a web server of the service provider to provide the registered Internet service to thea client if ~~the a~~ type of the communication proxy matches ~~athe~~ client-specified communication proxy type ~~specified by the client~~ and a supported protocol of the communication proxy matches ~~anthe~~ client-specified application-level ~~protocol-specified by the client~~.
2. (Cancelled)
3. (Previously Presented) The method as in claim 1, wherein the type of the communication proxy is one of Java, common language runtime (CLR), component object model (COM), and Win32 binaries.
4. (Previously Presented) The method as in claim 1, wherein the at least one supported protocol of the communication proxy includes at least one of hypertext transfer protocol (HTTP), simple mail transfer protocol (SMTP), simple object access protocol (SOAP), secure sockets layer (SSL/HTTPS), and secure HTTP (S-HTTP).
5. (Cancelled)

6. (Currently Amended) A method within a communications network comprising:  
requesting a desired Internet service, by a client, to a broker, the client request including a desired communication proxy type and a desired application-level protocol;  
receiving metadata from the broker regarding a communication proxy if the broker matches the client request within an Internet service registration, the communication proxy having at least a matching communication proxy type to the desired communication proxy type and a supported protocol of the communication proxy matches the application-level protocol specified by the client, the communication proxy provided by a service provider that registered of the desired Internet service with the broker;  
downloading, by the client, the communication proxy from a location specified by the metadata; and  
interacting with a web server of the service provider using the downloaded communication proxy to receive the desired Internet service.

7. (Previously Presented) The method as in claim 6, wherein the communication proxy supports the desired application-level protocol.

8. (Previously Presented) The method as in claim 6, wherein interacting further comprises:  
remotely accessing the web server by the downloaded communication proxy according to the client.

9. (Original) The method as in claim 6, wherein interacting comprises:  
dynamic interacting.

10. (Original) The method as in claim 6, wherein receiving metadata comprises:  
obtaining one of extensible markup language (XML), hyper text markup language (html), text file, and binary.

11. (Previously Presented) The method as in claim 6, wherein the desired communication proxy type is one of Java, common language runtime (CLR), component object model (COM), and Win32 binaries.

12. (Previously Presented) The method as in claim 6, wherein the desired application-level protocol is one of hypertext transfer protocol (HTTP), simple mail transfer protocol (SMTP), simple object access protocol (SOAP), secure sockets layer (SSL/HTTPS), and secure HTTP (S-HTTP).

13. (Currently Amended) A method within a communications network comprising:  
receiving at least one Internet service registration that includes metadata regarding at least one communication proxy;

receiving, from a client, a request to locate a client-desired Internet service having a client-specified communication proxy type and a desired application-level protocol;

matching the request with an Internet service registration to identify a communication proxy of the communication proxy type and a supported protocol of the communication proxy matches the desired application-level protocol specified by the client, the communication proxy provided by a service provider of the desired Internet service; and

transmitting metadata to the client, the metadata including at least a location of the identified communication proxy, the identified communication proxy to enable client-access to a web server of the service provider to receive the client-desired Internet service;

downloading the communication proxy from the location to a node local to the client; and  
accessing, by the communication proxy, a web server of the service provider to provide the Internet service to a client.

14. (Previously Presented) The method as in claim 13, wherein receiving said metadata comprises:

obtaining descriptions of at least one supported protocol, a type, and a location of the communication proxy.

15. (Original) The method as in claim 13, wherein receiving said metadata comprises:

obtaining one of extensible markup language (XML), hypertext markup language (html), text file, and binary.

16. (Previously Presented) The method as in claim 14, wherein the communication proxy type is at least one of Java, common language runtime (CLR), component object model (COM), and Win32 binaries; and wherein a supported protocol of the communication proxy includes at least one of hypertext transfer protocol (HTTP), simple mail transfer protocol (SMTP), simple object access protocol (SOAP), secure sockets layer (SSL/HTTPS), and secure HTTP (S-HTTP).

17. (Currently Amended) A machine readable medium having instructions which when executed by a machine cause said machine to perform ~~operations~~ a method within a communications network comprising:

requesting a desired Internet service, by a client, to a broker, the client request including a desired communication proxy type and a desired application-level protocol;

receiving metadata from the broker regarding a communication proxy if the broker matches the client request within an Internet service registration, the communication proxy having a matching communication proxy type to the desired communication proxy type and a supported protocol of the communication proxy matches the desired application-level protocol specified by the client, the communication proxy provided by a service provider of the desired Internet service;

downloading, by the client, the communication proxy from a location specified by the metadata; and

interacting, by the client, with a web server of the service provider using the downloaded communication proxy to receive the desired Internet service.

18. (Cancelled)

19. (Original) The machine readable medium as in claim 17, wherein interacting is accomplished at runtime.

20. (Original) The machine readable medium as in claim 17, wherein interacting comprises:  
dynamic interacting.

21. (Cancelled)